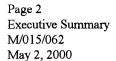
# **EXECUTIVE SUMMARY**

Prepared - June 7, 1993 Revised - May 2, 2000

| Mine Name: ECDC Clay Project   | I.D. No: M/015/062                                   |
|--|--|
| Operator: ECDC-Environmental   | County: Emery  |
| 1111 West Highway 123, P. O. Box 69  | New/Fxisting: Existing                               |
| East Carbon, Utah 84520  | Mineral Ownership: Private                           |
|  | Surface Ownership: Private                           |
| Telephone: 801/888-4451  | Lease No.(s): none                                   |
| Contact Person: Darin Olson  | Permit Term: <u>life of mine</u>                     |
| Life of Mine: ten years  |  |
| Permitting Action: This executive summary is the result  | of a permit amendment to the approved LMO.           |
| <u></u>  |  |
| Legal Description: NE 1/4, NW 1/4 and NW 1/4, NE 1   | 1/4, Section 1, Township 16 South, Range 11 East     |
| and SE 1/4, Section 36, Township 15 South, Range 11 Eas  |  |
|  |  |
| Mineral(s) to be Mined: Bentonite Clay   |  |
|  |  |
| Mining Methods: open pit/quarry mining   |  |
|  |  |
| Acres to be Disturbed: 25.4  |  |
|  |  |
| Present Land Use: Grazing and wildlife habitat   |  |
| Postmining Land Use: Grazing and wildlife habitat  |  |
| Variances from Reclamation Standards (Rule R647) Gra The Operator will use the limited soil resources to create is spreading a thin (2-3 inch) layer over entire site. It is belie revegetation potential. | lands of soil 10-12 inches deep rather than          |
| Soils and Geology:   |  |
| Soil Description: Shallow layers of Chipeta and Persayo shale and eroding shale outcrop.   | soils (poorly developed soils) over mainly Mancos    |
| pH: unknown at this time, to be provided at a later date.  |  |
| Special Handling Problems: Clay soils, composted manureclamation.  | re will be used to enhance soil properties for final |
| Geology Description: The mine is located at the transition   | zone between the Dakota Sandstone and the Blue       |
| Gate Member of the Mancos Shale.   |  |



## Hvdrology:

| <del></del>  |
|--|
| Vegetation Type(s); Dominant Species: shadescale, rabbitbrush, saltbrush, indian ricegrass |
| Percent Surrounding Vegetative Cover: 20%  |
| Wildlife Concerns: No threatened or endangered species or critical wildlife habitat.       |
| Surface Facilities: Portable onsite crushing and screening facility                        |

Mining and Reclamation Plan Summary: . . . .

#### **During Operations:**

ECDC will mine a shallow open pit for bentonite clay. The clay will be excavated using D-9 dozers and 988 loader. It will then be crushed and screened, then hauled approximately 18 miles along existing county and state roads to the ECDC landfill near East Carbon, for use as liner material for the ECDC landfill. The operator plans to excavate approximately 130,000 cubic yards of clay in a period of 90 days. Intermittent mining may continue on an as-needed basis following the initial 90 day development/extractive phase.

#### **After Operations:**

ECDC will backfill and regrade quarried areas to slopes no steeper than 2h:1v. Roads and pads will be ripped and regraded where appropriate. All reclaimed areas will be mulched, fertilized and reseeded with an approved seed mixture. All structures and equipment will be removed from the site. Portions of the access road leading into the site will be left for post mining access.

### Surety:

| Amount: | \$63,100 (2005 dollars) |  |
|---------|-------------------------|--|
| Form:   | Surety Bond             |  |
| Renewab | le Term: 5 years        |  |